PATENT COOPERATION TREATY





INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	(Form	otification of Transmittal	of Interna	ational Search Report applicable, item 5 below.
LP2006PC00	ACTION			
International application No.	International filing date (day/mont	h/year) (Earliest) F	Priority Da	ate (day/month/year)
PCT/EP 03/06494	19/06/2003		19/0	06/2002
Applicant			***	
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LONZA S.P.A.				
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this International Sea Insmitted to the International Burea	rching Authority and is tr u.	ansmitted	d to the applicant
This International Search Report consists X It is also accompanied by	of a total of sh a copy of each prior art document o	eets. cited in this report.		•
1. Basis of the report				
a. With regard to the language, the language in which it was filed, unl	international search was carried ou ess otherwise indicated under this i	t on the basis of the inter tem.	national :	application in the
Authority (Aute 23.1(b)).	as carried out on the basis of a trar			
b. With regard to any nucleotide an was carried out on the basis of the	d/or amino acid sequence disclose sequence listing:	ed in the international ap	plication	, the international search
	onal application in written form.			
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international application a	osequently furnished written sequer is filed has been furnished.	nce listing does not go be	eyond the	disclosure in the
the statement that the info furnished	ormation recorded in computer read	able form is identical to	the writte	n sequence listing has been
2. Certain claims were fou	nd unsearchable (See Box I).			
3. Unity of invention is lac	king (see Box II).			•
4. With regard to the title,				
the text is approved as su	bmitted by the applicant.			
	hed by this Authority to read as foll			
TITANIUM-VANADIUM-TIN OF PHTHALIC ANHYDRID		AND PROCESS FO	R THE	PREPARATION
5. With regard to the abstract,				
the text is approved as si				•
the text has been establish within one month from the	shed, according to Rule 38.2(b), by e date of mailing of this internationa	this Authority as it appea I search report, submit c	irs in Box omments	III. The applicant may, to this Authority
6. The figure of the drawings to be pub				· · · · · · · · · · · · · · · · · · ·
as suggested by the app			X	None of the figures.
because the applicant fai	led to suggest a figure.		ليحت	
because this figure bette	characterizes the invention.			





International application No.

PCT/EP 03/06494

Box III TEXT OF THE ABSTRACT (Continuation of Item 5 of the first sheet)

Disclosed are catalytic compositions comprising oxides of titanium, vanadium and tin which are suitable for the production of phthalic anhydride by oxidizing o-xylene and/or naphthalene in the gas phase. The catalysts exhibit excellent activity and selectivity. The catalysts comprise from 2 to 15% by weight (calculated as V_2O_5) of vanadium, from 1 to 15% by weight (calculated as SnO_2) of tin and further comprise from 70 to 97% by weight (calculated as TiO_2) of titanium. In a preferred embodiment the catalysts of the invention comprise up to 5% by weight (calculated as M_2O) of at least one alkali metal, preferably lithium, potassium or rubidium, and more preferably cesium. In an even more preferred embodiment, cesium is present in an amount of from 0.01 to 2% by weight (calculated as Cs_2O).

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International Application No /EP 03/06494 A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01J23/22 C07 B01J23/22 C07C51/31 C07C51/265 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 B01J C07C Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, COMPENDEX C. DOCUMENTS CONSIDERED TO BE RELEVANT Category 9 Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. Х DE 19 43 759 A (HEYDEN CHEM FAB) 1-17 8 April 1971 (1971-04-08) claims 1-5 example 2 EP 0 985 648 A (NIPPON STEEL CHEMICAL CO) Х 1,5,6, 15 March 2000 (2000-03-15) 8-17 paragraph [0027] - paragraph [0033] paragraph [0043] - paragraph [0044] table 2 Χ US 4 469 878 A (KANEYASU MASATAKA ET AL) 1,5,6, 4 September 1984 (1984-09-04) 8-17 cited in the application the whole document EP 0 286 448 A (NIPPON STEEL CHEMICAL CO) 12 October 1988 (1988-10-12) -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to filing date document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) involve an inventive step when the document is taken alone document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or other means ments, such combination being obvious to a person skilled in the art. document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 0.8 1 2003

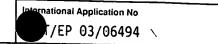
15 September 2003

Authorized officer

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Zuurdeeg, B

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C.(Continu	3/06494 \		
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